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**SUPPLEMENTAL DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that:

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I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**Prior Foreign Application(s)**

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
	-		

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Application No.	Filing Date

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

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Joseph Bach	Registration No. 37,771
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
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Robert W. Mulcahy	Registration No. 25,436
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Patrick M. Boucher                        Registration No. 44,037

Send correspondence to:                Direct telephone calls to:

Patent Counsel, MS/2061                 Patrick M. Boucher  
Legal Affairs Dept.                        303-571-4000  
Applied Materials, Inc.  
P.O. Box 450A  
Santa Clara, CA 95052

Full name of first inventor:            Canfeng Lai

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Peoples Republic of China

Full name of second inventor:          Michael S. Cox

Inventor's signature: 

Date: 06-05-03

Citizenship: United States

Full name of third inventor:          Peter K. Loewenhardt

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Canada

Full name of fourth inventor:        Tsutomu Tanaka

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Japan

Full name of fifth inventor:        Shamouil Shamoulian

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: United States

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Legal Affairs Dept.                303-571-4000  
Applied Materials, Inc.  
P.O. Box 450A  
Santa Clara, CA 95052

Full name of first inventor:    Canfeng Lai

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Peoples Republic of China

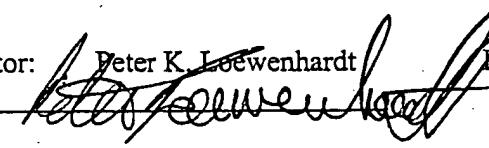
Full name of second inventor: Michael S. Cox

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: United States

Full name of third inventor: Peter K. Loewenhardt

Inventor's signature: 

Date: 8/15/2003

Citizenship: Canada

Full name of fourth inventor: Tsutomu Tanaka

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Japan

Full name of fifth inventor: Shamouil Shamoulian

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

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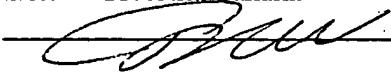
Full name of third inventor:   Peter K. Loewenhardt

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: Canada

Full name of fourth inventor:   Tsutomu Tanaka

Inventor's signature: 

Date: \_\_\_\_\_

Citizenship: Japan

Full name of fifth inventor:   Shamouil Shamoulian

Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

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Inventor's signature: \_\_\_\_\_

Date: \_\_\_\_\_

Citizenship: United States

Shamouil Shamoulian

6/23/03

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JULY 18, 2001

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APPLIED MATERIALS, INC.  
 ROBERT W. MULCAHY  
 PATENT COUNSEL LEGAL AFFAIRS DEPARTMENT  
 P.O. BOX 450A, M/S 2061  
 SANTA CLARA, CALIFORNIA 95052



\*101702581A\*

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RECORDATION DATE: 04/20/2001

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NUMBER OF PAGES: 13

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST. (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:  
LAI, CANFENG

DOC DATE: 04/12/2001

ASSIGNOR:  
COX, MICHAEL S.

DOC DATE: 04/16/2001

ASSIGNOR:  
LOEWEHARDT, PETER K.

DOC DATE: 04/10/2001

ASSIGNOR:  
TANAKA, TSUTOMU

DOC DATE: 04/16/2001

COMPUTER ENTERED

ASSIGNOR:  
SHAMOUILIAN, SHAMOUIL

DOC DATE: 04/12/2001

JUL 25 2001

ASSIGNEE:  
 APPLIED MATERIALS, INC.  
 P.O. BOX 450A  
 LEGAL AFFAIRS DEPARTMENT  
 SANTA CLARA, CALIFORNIA 95052

011753/0518 PAGE 2

SERIAL NUMBER: 09839360  
PATENT NUMBER:

FILING DATE:  
ISSUE DATE:

SAUNDRA BALLINGER, EXAMINER  
ASSIGNMENT DIVISION  
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05-07-2001

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**Conveying Party(ies)**

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Execution Date

Month Day Year

4-12-01

Name (line 1)  Canfeng LaiName (line 2) **Second Party**Name (line 1)  Michael S. Cox

Execution Date

Month Day Year

4-16-01

Name (line 2) **Receiving Party**Name (line 1)  Applied Materials, Inc.

Mark If additional names of receiving parties attached

Name (line 2) 

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California

95052

City

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09/03/9360  
4/20/01

**Conveying Party(ies)**

Mark if additional names of conveying parties attached

*Enter additional Conveying Parties*

Name (line 1) Peter K. Loewenhardt

Execution Date  
Month Day Year  
**4 - 10 - 01**

Name (line 2) \_\_\_\_\_

Execution Date  
Month Day Year  
**4 - 16 - 01**

Name (line 1) Tsutomu Tanaka

Execution Date  
Month Day Year  
**4 - 12 - 01**

Name (line 2) \_\_\_\_\_

Name (line 1) Shamoull Shamoulian

Name (line 2) \_\_\_\_\_

**Receiving Party(ies)**

Mark if additional names of receiving parties attached

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representative is attached.  
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Address (line 2) \_\_\_\_\_

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City

State/Country

Zip Code

**Application Number(s) or Patent Number(s)**

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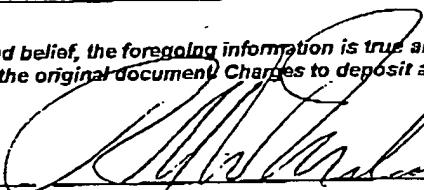
**Patent Application Number(s)**

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Name	Patent Counsel		
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Address (line 2)	Legal Affairs Department		
Address (line 3)	P.O. Box 450A, M/S 2061		
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<b>Pages</b>	Enter the total number of pages of the attached conveyance document including any attachments # <b>/3</b>		
<b>Application Number(s) or Patent Number(s)</b> <input type="checkbox"/> Mark if additional numbers attached. <small>Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).</small>			
Patent Application Number(s) <input type="text"/> 09/1239360 <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>			
Patent Number(s) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>			
<small>If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.</small> Month Day Year			
<b>Patent Cooperation Treaty (PCT)</b> <small>Enter PCT application number only if a U.S. Application Number has not been assigned.</small> PCT <input type="text"/> PCT <input type="text"/> PCT <input type="text"/> PCT <input type="text"/> PCT <input type="text"/> PCT <input type="text"/>			
<b>Number of Properties</b>	Enter the total number of properties involved. # <b>1</b>		
<b>Fee Amount</b>	Fee Amount for Properties Listed (37 CFR 3.41): \$ <b>40.00</b>		
Method of Payment: Deposit Account	<input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Deposit Account <small>Enter for payment by deposit account or if additional fees can be charged to the account.)</small>		
Deposit Account Number: # <b>50-1074</b>			
Authorization to charge additional fees: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
<b>Statement and Signature</b> <small>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.</small>			
Robert W. Mulcahy Attorney Reg. No. 25,436		 Signature <b>4/20/01</b> Date	
Name of Person Signing			

PRO  
 09/04/2001  
 04/20/01  
 09/04/2001  
 04/20/01

Attorney Docket No.: A5152/T39500  
 AMAT No.: 005152/PDD/CORE DCVD/JW  
 TTC No.: 016301-039500US

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
 of Inventors:

1)	Canfeng (Ken) Lai, Ph.D 47615 Hoyt Street Fremont, CA 94539 United States	2)	Michael S. Cox 40 Center Street Davenport, CA 95017 United States
3)	Peter K. Loewenhardt 5602 Selena Ct Pleasanton, CA 94566 United States	4)	Tsutomu Tanaka 744 Nicholson Avenue Santa Clara, CA 95051 United States
5)	Shamouil Shamouilian 6536 Little Falls Drive San Jose, CA 95120 United States		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

## MULTI-CORE TRANSFORMER PLASMA SOURCE

for which application for Letters Patent in the United States was filed on Herewith, under Application No. Unassigned, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing, or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings

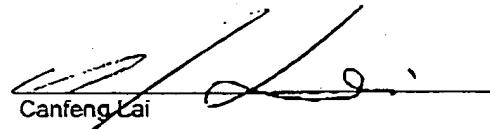
involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) April 12, 2001



Canfeng Kai

2) \_\_\_\_\_, 2001



Michael S. Cox

3) \_\_\_\_\_, 2001



Peter K. Loewenhardt

4) \_\_\_\_\_, 2001



Tsutomu Tanaka

5) \_\_\_\_\_, 2001



Shamouil Shamoulian

PA 3136592 v1

Attorney Docket No.: A5152/T39500  
 AMAT No.: 005152/PDD/CORE DCVD/JW  
 TTC No.: 016301-039500US

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
 of Inventors:

1)	Canfeng (Ken) Lai, Ph.D 47615 Hoyt Street Fremont, CA 94539 United States	2)	Michael S. Cox 40 Center Street Davenport, CA 95017 United States
3)	Peter K. Loewenhardt 5602 Selena Ct Pleasanton, CA 94566 United States	4)	Tsutomu Tanaka 744 Nicholson Avenue Santa Clara, CA 95051 United States
5)	Shamouil Shamoulian 6536 Little Falls Drive San Jose, CA 95120 United States		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

## MULTI-CORE TRANSFORMER PLASMA SOURCE

for which application for Letters Patent in the United States was filed on Herewith, under Application No. Unassigned, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

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1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include, prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings

involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_, 2001 Canfeng Lai  
2) \_\_\_\_\_, 2001 Michael S. Cox  
3) \_\_\_\_\_, 2001 Peter K. Loewenhardt  
4) April 16, 2001 Tsutomu Tanaka  
5) \_\_\_\_\_, 2001 Shamouil Shamouilian

PA 3136592 v1

Attorney Docket No.: A5152/T39500  
 AMAT No.: 005152/PDD/CORE DCVD/JW  
 TTC No.: 016301-039500US

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
 of Inventors:

1)	Canfeng (Ken) Lai, Ph.D 47615 Hoyt Street Fremont, CA 94539 United States	2)	Michael S. Cox 40 Center Street Davenport, CA 95017 United States
3)	Peter K. Loewenhardt 5602 Selena Ct Pleasanton, CA 94566 United States	4)	Tsutomu Tanaka 744 Nicholson Avenue Santa Clara, CA 95051 United States
5)	Shamouil Shamouilian 6536 Little Falls Drive San Jose, CA 95120 United States		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

## MULTI-CORE TRANSFORMER PLASMA SOURCE

for which application for Letters Patent in the United States was filed on Herewith, under Application No. Unassigned, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

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1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings

involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) \_\_\_\_\_, 2001

Canfeng Lai

2) 4/16/01, 2001

Michael S. Cox

3) \_\_\_\_\_, 2001

Peter K. Loewenhardt

4) \_\_\_\_\_, 2001

Tsutomu Tanaka

5) \_\_\_\_\_, 2001

Shamouil Shamoulian

PA 3136592 v1

Attorney Docket No.: A5152/T39500  
 AMAT No.: 005152/PDD/CORE DCVD/JW  
 TTC No.: 016301-039500US

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
 of Inventors:

1)	Canfeng (Ken) Lai, Ph.D 47615 Hoyt Street Fremont, CA 94539 United States	2)	Michael S. Cox 40 Center Street Davenport, CA 95017 United States
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5)	Shamouil Shamouilian 6536 Little Falls Drive San Jose, CA 95120 United States		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

## MULTI-CORE TRANSFORMER PLASMA SOURCE

for which application for Letters Patent in the United States was filed on Herewith, under Application No. Unassigned, executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

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involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____	2001	Canfeng Lai
2)	_____	2001	Michael S. Cox
3)	_____	2001	Peter K. Loewenhardt
4)	_____	2001	Tsutomu Tanaka
5)	<u>4/12</u>	2001	<u>Shamoull Shamoulian</u> Shamoull Shamoulian

PA 3136592 v1

Attorney Docket No.: A5152/T39500  
 AMAT No.: 005152/PDD/CORE DCVD/JW  
 TTC No.: 016301-039500US

## ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses  
 of Inventors:

1)	Canfeng (Ken) Lai, Ph.D 47615 Hoyt Street Fremont, CA 94539 United States	2)	Michael S. Cox 40 Center Street Davenport, CA 95017 United States
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5)	Shamouil Shamouilian 6536 Little Falls Drive San Jose, CA 95120 United States		

(hereinafter referred to as Assignors), have invented a certain invention entitled:

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for which application for Letters Patent in the United States was filed on Herewith, under Application No. Unassigned, executed on even date herewith; and

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involving said Invention, and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

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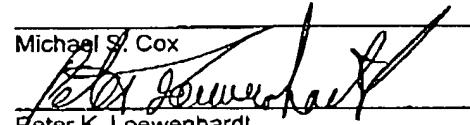
1) \_\_\_\_\_, 2001

Canfeng Lai

2) \_\_\_\_\_, 2001

Michael S. Cox

3) April 10, 2001

  
Peter K. Loewenhardt

4) \_\_\_\_\_, 2001

Tsutomu Tanaka

5) \_\_\_\_\_, 2001

Shamouil Shamouilian

PA 3136592 v1